

Pickering Generating Station

Environment Management System Development



Client:
**Ontario Power Generation,
Pickering Nuclear Generating
Station**

XCG Consultants assisted internal staff at Ontario Power Generation's (OPG) Pickering Nuclear Generating Station to develop an Environmental Management System (EMS) for registration to the ISO 14001 Standard. The EMS Program implemented by XCG established the Pickering Nuclear Generating Station as one of the first ISO 14001 registered nuclear plants in the world. The Pickering site has a combination of radiological and conventional environmental issues that were addressed in the EMS.

Review of Existing Documentation

Using a database designed and developed by XCG, our staff reviewed all of the Generating Station's Policies, Procedures, Instructions, and other documents. This review was designed to:

- Determine the consistency of existing EMS documentation with the specific documentation requirements of ISO 14001
- Determine missing or inadequate EMS documentation
- Assess the adequacy of existing documentation for each of the other ISO 14001 elements

Review of Significant Environmental Aspects

Following OPG's initial identification of environmental aspects and ranking of significance, XCG reviewed the applicability of these aspects to the Pickering site. A thorough review and analysis of each significant aspect and its applicability to Pickering operations was necessary.

Development of Environmental Manual

XCG developed a comprehensive Environmental Management Manual that incorporates each of the ISO 14001 elements and all of the requisite policies and procedures applicable to Pickering management systems.

Development of Management Programs

XCG conducted interviews and document reviews to collect program information that describes how the site will achieve its objectives and targets for each significant environmental aspect. The management programs provide a comprehensive manual for environmental operating controls to minimize environmental impacts at the facility.

XCG's Contribution to Success

XCG's expert ISO 14001 knowledge and broad experience facilitated the successful completion of this project. Critical contributions included recognition of missing and inadequate EMS components in existing systems, the improvement of existing structures and procedures where possible, working with a manageable number of significant environmental aspects, and providing hands-on support to internal staff.

Expert People. Better Decisions.
xcg.com